UNCLASSIFIED

IHSA 81-038

13 November 1981

MEMORANDUM FOR: Members, Technical and Scientific Facilities
Working Group

FROM: [   ]   STAT
                      Chairman

SUBJECT: Working Group Information

1. Thank you for your participation in our working group sessions of November 9 and 10. I believe there was a valuable exchange of concepts, information and practical considerations in those sessions.

2. The working group reached the following conclusions:

- A major shortcoming in the Agency in the effort to provide required Technical and Scientific Facilities is a shortage of skilled personnel. A better motivation and compensation system is required to attract and retain such personnel.

- Interactive graphics will be a key element in the presentation of intelligence and its use in Crisis Management, Special Operations, and Analysis is essential. Adequate tools must be available to support this functionality in the intelligence operations and analysis process.

- The merging of text, graphics, and derived data must be provided for in a more "automated" publication process.

- Adequate documentation standards and validation and verification methods must be established so that delivered technical and scientific capabilities can be integrated into the intelligence process and used efficiently.

- Because of special requirements and security considerations there will probably always be a need for some stand-alone machines/systems.

UNCLASSIFIED

- There is a definite requirement for expanded
  technical and scientific hardware and soft-
  ware facilities in the future especially
  within NFAC where specific "models/processes"
  will be "linked" to each other in the analytic
  process.

3. We will be meeting again on Wednesday, 18 November,
to more clearly focus on the issues and questions presented
in the working group point papers and on matters raised in
the sessions. Specific questions addressed so far are:

- Is (are) special machine(s) needed (Array
  Processor, Parallel Processor, Data Base
  Machine) to support Scientific and Technical
  processing needs? If so, should our modeling
  and signal processing functions be aggregated
  into a special machinery environment having
  the support of a powerful technical ADP staff?
  Do security considerations dictate separate
  facilities for development?

- Quantify the Agency's needs for interactive
  graphics and CAD support.

- Are these the proper priorities for CAD and
  interactive graphics support:

  Mandatory

  - Support in the analytical process
    including Signal Processing in addi-
    tion to the processes listed in the
    point paper.

  - Support to Special Operations

  - Publication design and production

  Desirable

  - Production control/management

  - Engineering support including back-
    ward engineering

  Not Required

  - Building (physical plant) logistics

    - Quantify the expected growth in the use of
these facilities and quantify the impact of
expanding current facilities (the increase in
current model sizes, for example).

4.   In addition to this formulation of specific questions
we will be briefed by [   ] of OD&E on S&T's use of   **STAT**
Technical and Scientific facilities.

5.   We will meet at 9:00 a.m. on Wednesday, 18 November
1981 in Room 2E29, Hqs.   Please contact [   ]   **STAT**
if you have questions concerning this matter.

STAT